

Title (en)

Multilayered structure using ethylene-vinyl alcohol copolymer.

Title (de)

Äthylenvinylalkoholkopolymer enthaltende mehrschichtige Struktur.

Title (fr)

Structure multicouche comportant un copolymère d'éthylène et d'alcool vinylique.

Publication

EP 0239092 A2 19870930 (EN)

Application

EP 87104395 A 19870325

Priority

JP 6958686 A 19860326

Abstract (en)

The present invention discloses a hot drawn multilayered structure comprising a layer of an ethylene-vinyl alcohol copolymer composition comprising 70 to 95 wt% of EVOH having an ethylene content of 25 to 60 mol% and a saponification degree of at least 90% and 5 to 30 wt% of an aliphatic copolymer polyamide containing capramide as a main structural unit, the ratio of the number of methylene groups to the number of amide groups satisfying the equation: $6.6 \leq \frac{\text{SB2}}{\text{NHCO}} \leq 10$ having a melting point of 110 to 180 DEG C and showing a melt index of 0.1 to 10 g/10 min, and a thermoplastic resin layer provided on at least one surface of said layer. The multilayered structure of the present invention has excellent and highly uniform gas barrier properties and contains hardly any gel or hard spots.

IPC 1-7

B32B 27/30; **B32B 27/34**

IPC 8 full level

B32B 27/30 (2006.01)

CPC (source: EP US)

B32B 7/12 (2013.01 - US); **B32B 27/08** (2013.01 - US); **B32B 27/30** (2013.01 - EP US); **B32B 27/302** (2013.01 - US); **B32B 27/306** (2013.01 - US); **B32B 27/32** (2013.01 - US); **Y10T 428/1383** (2015.01 - EP US); **Y10T 428/31913** (2015.04 - EP US); **Y10T 428/3192** (2015.04 - EP US); **Y10T 428/31928** (2015.04 - EP US)

Cited by

GB2218668A; EP0457598A3; EP0322891A3; US5069946A; EP1152031A4; US6224956B1

Designated contracting state (EPC)

BE DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0239092 A2 19870930; **EP 0239092 A3 19881026**; **EP 0239092 B1 19940608**; AU 596157 B2 19900426; AU 7055987 A 19871001; CA 1324312 C 19931116; DE 3789985 D1 19940714; DE 3789985 T2 19940922; DK 151587 A 19870927; DK 151587 D0 19870325; DK 164495 B 19920706; DK 164495 C 19921123; US 5068077 A 19911126

DOCDB simple family (application)

EP 87104395 A 19870325; AU 7055987 A 19870324; CA 532969 A 19870325; DE 3789985 T 19870325; DK 151587 A 19870325; US 63038690 A 19901218